Vivitar®

V3815 User Manual

English

Rev. 1 - 040701

NOTICE

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
This device may not cause harmful interference, and
This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

READ THIS FIRST

Trademark Information

- Microsoft® and Windows® are U.S. registered trademarks of Microsoft Corporation.
- Pentium® is a registered trademark of Intel Corporation.
- Macintosh is a trademark of Apple Computer, Inc.
- SD™, PhotoSuite and PhotoVista are trademarks.
- Other names and products may be trademarks or registered trademarks of their respective owners.

Product Information

- Product design and specifications are subject to change without notice. This includes primary product specifications, software, software drivers, and user's manual. This User's Manual is a general reference guide for the product.
- The product and accessories that come with your ViviCam 3815 may be different from those described in this manual. This is due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences. Products very often vary between retailers especially with accessories such as batteries, chargers, AC adapters, memory cards, cables, carrying cases/pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and
  included accessories.
- The manufacturer assumes no liability for any errors or discrepancies in this user's manual.
- For user manual and driver updates, refer to our website or contact your dealer.

FOR YOUR SAFETY

Warnings

- Do not use this camera if it is emitting smoke (or an unusual odor), becoming unusually hot to be touched, producing a peculiar noise, or exhibiting any other abnormal conditions. Operating the camera in any of these circumstances may cause a fire or an electrical shock. Stop using the camera immediately, turn the camera off, remove the batteries, and disconnect the power source if you are using an AC power adapter. Contact your dealer or authorized service facility for repairs. Never attempt to repair this camera by yourself, as this may be dangerous.
- Do not expose the camera to moisture and make sure no water gets into the camera. Take particular care when using the camera under extreme weather conditions, such as rain or snow, or when operating the camera at the beach on near water. Avoid using this camera in places subject to extreme moisture. Do not use the camera if water has entered the camera. Turn the camera off, remove the batteries, and disconnect the power source if you are using an AC power adapter. Unplug the adapter from the AC power outlet after you have disconnected the camera. Contact your dealer or authorized service facility. Do not continue to use the camera as this may cause a fire or an electrical shock.
- Do not touch the power plug during a thunderstorm if you are using the AC power adapter. This may cause an electrical shock.
- Do not use the camera if any foreign objects have entered the camera. Turn the camera off, remove the batteries, and disconnect the power source if you are using an AC power adapter. Unplug the adapter from the AC power outlet after you have disconnected the camera. Contact your dealer or authorized service facility. Do not continue to use the camera as this may cause a fire or an electrical shock.
- Do not place the camera in an unstable location such as on a wobbly table or sloping surface where the camera may fall or tip over and cause injury. If the camera has been dropped or damaged, turn the camera off and remove the batteries or AC power adapter. Contact your dealer or authorized service facility. Do not continue to use the camera as this may cause a fire or an electrical shock.
- WARNING: Handling the USB and AV cables on this product may expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling.

FOR YOUR SAFETY

Warnings

- Do not attempt to modify this camera. Do not remove the camera casing. This may cause a fire or an electrical shock. Internal inspection and repairs should only be carried out by an authorized service facility.
- Never operate this camera in any way while driving a vehicle. This may cause a traffic accident.
- Do not cover or wrap the camera or the AC power adapter with a cloth or quilt. This may cause heat to build up, distort the case and cause a fire. Always use the camera and its accessories in well-ventilated locations.
- Do not move the camera while it is switched on. (If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have switched off the camera.) Ensure that any connector cords or cables to other devices are disconnected before moving the camera. Failure to do so may damage the cords or cables and cause a fire or an electrical shock.

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INTRODUCTION

Overview

Your new ViviCam 3815 delivers high quality, 2304 x 1728 resolution images using a 4.0 Megapixel CCD sensor. Using either the optical viewfinder or the color image LCD monitor, you can compose images and then examine them in detail. An auto-flash sensor automatically detects the shooting (lighting) conditions and determines whether the flash should be used. This feature helps ensure that your images turn out right.

Internal (built-in) memory let you capture and store images without the need for an additional memory card. However, you may wish to expand the memory capacity by using an external memory card.

In addition to still images, you can record short videos by using the movie function.

Images you have taken can be downloaded to your computer using the USB cable (A USB driver is required for Win 98 and Mac OS 8.6.) You can enhance and retouch your images on your computer by using the provided editing software, or image editing software you may already own. You may share your images with your friends via e-mail, in a report, or on a website.

Package Contents

Carefully unpack your ViviCam 3815 and ensure that you have the following items. In the event that any item is missing or if you find any mismatch or damage, promptly contact to your dealer.

- Digital Camera
- User's Manual
- USB Cable
- AV Cable
- Camera Strap
- Software CD-ROM
- 2 AA Batteries

Optional Accessories

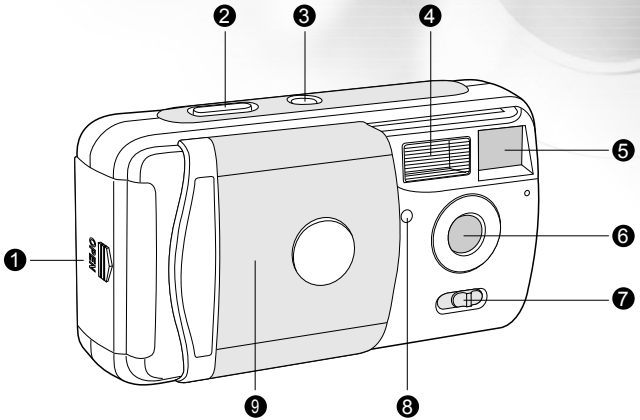
- SD Memory Card
- AC Power Adapter

Note:

- The accessories that come with your ViviCam 3815 may be different from those described in this manual due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences. Products very often vary between retailers especially with accessories such as batteries, chargers, AC adapters, memory cards, cables, carrying cases/pouches, and language support. Occasionally a r etailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for pr ecise product definition and included accessories.

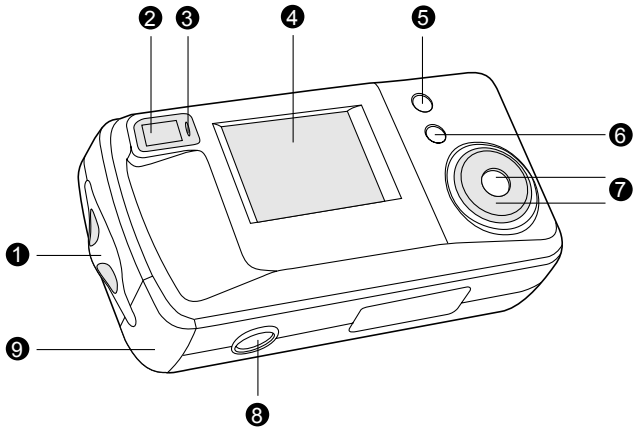
COMPONENTS GUIDE

Front View



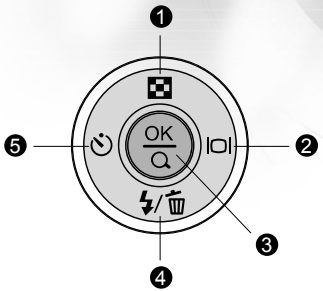
1. Battery/SD card cover
2. Shutter button
3. Power button
4. Flash
5. Viewfinder window
6. Lens
7. Focus switch
8. Self-timer LED
9. Lens cover

Rear view



1. Strap eyelet
2. Viewfinder
3. LED indicator
4. LCD monitor
5. MODE button
6. MENU button
7. Multi-Selector
8. Tripod socket
9. Port cover
   USB/VIDEO Out
   DC-IN

Multi-Selector



1. ▲	Arrow button (Up)	4. ▼	Arrow button (Down)
	Thumbnail button		Flash button
2. ▶	Arrow button (Right)		Delete button
	Display button	5. ◀	Arrow button (Left)
3. OK	OK button		Self-timer
	Digital zoom button		

LED Indicators

Indicator	Status	Description/Activity	Sound
LED indicator	Solid red	The ViviCam 3815 is powering up	No
LED indicator	Solid green	The ViviCam 3815 is powered and ready	Yes *(1)
LED indicator	Blinking red	Camera error	Yes *(3)
LED indicator	Blinking red	Charging the flash	No
LED indicator	Blinking green	Image is being recorded to the memory card	No
LED indicator	Solid red	USB communication/transfer in progress	No
LED indicator	Solid green	The ViviCam 3815 is ready to record images (or movies)	Yes *(1)
Self-timer indicator	Blinking red	The self-timer function is activated	No
----	----	Error message	Yes *(3)
----	----	Valid button event	Yes *(1)

- (1) The ViviCam 3815 sounds one beep.
- (3) The ViviCam 3815 sounds three beeps.

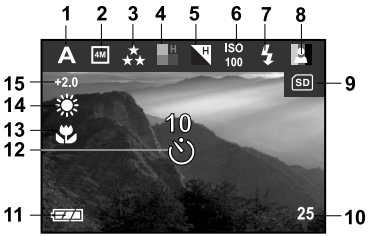
Scene Modes

Select the scene mode suitable for the occasion or situation.

Mode	Description
1. [A] Auto mode	Select this option to leave all the adjustments to the camera and capture images casually.
2. [ ] Sports mode	Select this option to capture fast-moving subjects.
3. [ ] Night Scene mode	Select this option to capture images of people against dark or night-time background.
4. [ ] Portrait mode	Select this option to make people stand out with the background out-of-focus.
5. [ ] Landscape mode	Select this option to capture images of distant scenery or landscapes.
6. [ ] Back Light mode	Select this option to brighten subjects that are backlit and would come out dark if no flash was used.
7. [ ] Movie mode	Select this option to record video (movie) clips.

LCD Monitor Information

These indicators are displayed when recording still images:



1. Scene mode
[A] Auto mode
[ ] Sports mode
[ ] Night Scene mode
[ ] Portrait mode
[ ] Landscape mode
[ ] Back Light mode
[ ] Movie mode

2. Image resolution
[4M] 2304X1728
[2M] 1600X1200
[1.2M]1280X960
[0.3M] 640X480

3. Image quality
[ ] Fine
[ ] Normal
[ ] Economy

4. Saturation
[ ] High
[ ] Medium
[ ] Low

5. Sharpness
[H] High
[ ] Medium
[L] Low

6. ISO speed
(no indication for Auto)
Auto
[ISO 100] 100
[ISO 200] 200

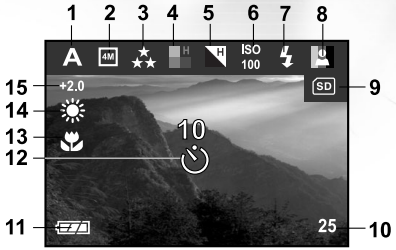
7. Flash mode
[ ] Fill flash (on)
[ ] Flash off
[ ] Automatic flash
[ ] Red-eye reduction

8. Color mode
[ ] Full Color
[ ] Black & White
[ ] Sepia

9. [SD] Card indicator

10. Remaining pictures

These indicators are displayed when recording still images:



11. [ ] Adapter indicator/
Battery level
[ ] Fully battery level
[ ] Fairly consumed
[ ] Nearly exhausted
[ ] Virtually no battery power

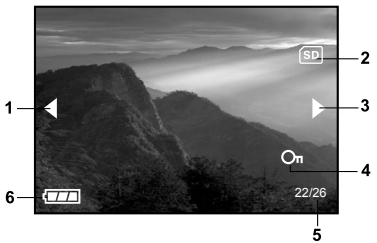
12. [ ] Self-timer mode

13. [ ] Macro mode icon

14. White balance
(no indication for auto white balance)
Auto
[ ] Daylight
[ ] Cloudy
[ ] Sunset
[ ] Tungsten
[ ] Fluorescent

15. EV compensation

These indicators are displayed when playing images back:



1. Reverse key
2. [SD] Card indicator
3. Forward key
4. [⚷] Protect indicator
5. Current image/total number of images
6. [⏚] Adapter indicator/
   Battery level
   [▰▰▰] Fully battery level
   [▰▰▱] Fairly consumed
   [▰▱▱] Nearly exhausted
   [▱▱▱] Virtually no battery power

These indicators are displayed when recording video clips:

1. Movie mode
2. Recording indicator
3. Video counter
4. [SD] Card indicator
5. [ ] Adapter indicator/ Battery level
   - [ ] Fully battery level
   - [ ] Fairly consumed
   - [ ] Nearly exhausted
   - [ ] Virtually no battery power
6. [ ] Macro mode icon

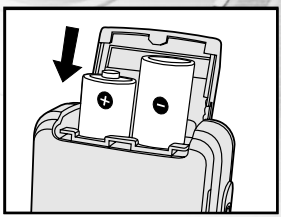
These indicators are displayed when playing video clips back:

1. Recorded time
2. [SD] Card indicator
3. [⇄] Adapter indicator/
   Battery level
   - [▮▮▮] Fully battery level
   - [▮▮] Fairly consumed
   - [▮] Nearly exhausted
   - [▯] Virtually no battery power

PREPARING YOUR VIVICAM 3815

Installing the Batteries (Optional Accessory)

You can use 2 AA size batteries (either Alkaline or Ni-MH) to power your camera. Battery power is convenient for capturing images or recording video clips.



1. Make sure your ViviCam 3815 is off.
2. Slide the battery/SD card cover in the direction of the arrow.
3. Insert the batteries noting the correct polarity marks (+ or -).
4. Close the battery/SD card cover land slide into locked position.

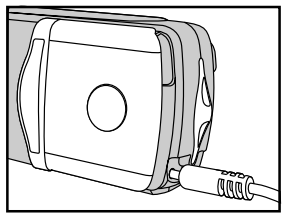
Note:

- Never use manganese batteries.
- Never use different types of batteries (together) or mix old and new batteries.
- Avoid using the batteries in extremely cold environments as low temperatures may shorten the battery life and reduce the camera performance.
- Low temperature will influence Alkaline battery performance, Ni-MH rechargeable battery is recommended.
- If you won't be using the batteries for an extended period of time, remove them from the camera to prevent the leakage or corrosion.
- New batteries or batteries that have not been used for an extended period of time (batteries that pass the expiry date are exceptions) might affect the number of pictures that can be taken. Therefore, to maximize their performance and lifetime, we recommend that you fully charge the batteries and discharge them for at least one complete cycle before use.

Using an AC Power Adapter (Optional Accessory)

There's another way to power your ViviCam 3815–using an AC power adapter. AC power adapter is recommended for long periods of continuous use or for transferring images to your computer.

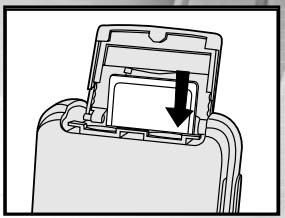
1. Make sure your ViviCam 3815 is off.
2. Open the port cover and connect one end of the AC power adapter to the jack labeled "DC IN".
3. Connect the other end to an electrical outlet.



Note:

- Make sure to use only the AC power adapter specified for the ViviCam 3815. Damage caused by the use of an incorrect adapter is not covered under the warranty.
- To prevent unexpected auto power off resulting from no battery power left during the process of transferring your images to the computer, use the AC power adapter as a power supply.
- Batteries cannot be charged while the AC power adapter is being used to run the ViviCam 3815.

Loading an SD Memory Card (Optional Accessory)

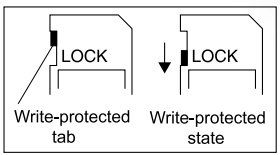


Your camera comes with internal memory, allowing you to store images and video clips in the ViviCam 3815. However, you can expand the memory capacity by using an SD memory card. Optional SD memory cards provide removable, reusable storage for images and video clips.

1. Make sure your ViviCam 3815 is off.
2. Open the SD card/battery cover.
3. Insert the SD memory card.
   - If the card cannot be inserted, check the orientation.
4. Close the SD card/battery cover.

Note:

- To prevent valuable data from being accidentally erased from an SD memory card you can slide the write protect tab (on the side of the SD memory card) to “LOCK”.
- To save, edit, or erase data on an SD memory card, you must unlock the card.
- If a memory card is present in the camera; the camera will automatically use the card in preference to internal memory.



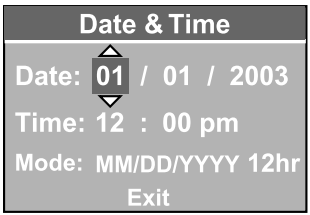
To remove an SD memory card

1. Make sure your ViviCam 3815 is off.
2. Open the SD card/battery cover.
3. Press lightly on the edge of the memory card and it will eject.

Note:

- Memory cards may become warm during use; observe caution when removing memory cards.
- When a memory card is removed from the camera; the camera will automatically revert to using internal memory.

Setting the Date and Time



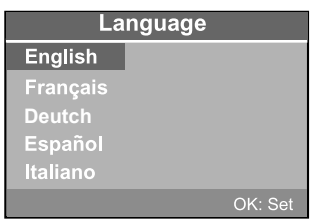
The Date/Time screen will be presented if/when:

- The ViviCam 3815 is turned on for the first time.
- The ViviCam 3815 is turned on after removing the batteries/AC power adapter for a long period of time.

When the date and time setting screen appears, follow these steps to set the correct date and time. You may skip this procedure by pressing EXIT.

1. Enter the values of the year, month, day and the time by using the ▲ / ▼ / ◀ / ▶ buttons.
   - To increase the value, press the ▲ button.
   - To decrease the value, press the ▼ button.
2. Press the OK button after all fields are set.

Choosing the Language



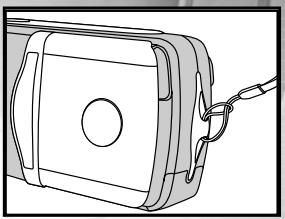
When you turn on the ViviCam 3815 for the first time, the language setting screen appears, prompting you to choose a language for displayed information and the LCD monitor. Follow the steps below to set the OSD (On-Screen Display) language.

1. Select a language that you prefer by using the ▲ / ▼ buttons.
2. Press the OK button after all fields are set.

Note:

- The language setting will be retained even if the ViviCam 3815 is turned off.

Attaching the Camera Strap



To prevent accidentally dropping your camera, always use the camera strap.

Attach the camera strap as follows:

1. Thread the small loop of the strap through the strap eyelet on the camera.
2. Pull the large loop through the small loop until the strap is firmly secured.

BASIC FUNCTIONS

Turning the Power On

1. Press and hold the POWER button for two seconds to turn on the camera.
- The LED indicator lights red while the camera is initialized.
- Open the lens cover

E

Note:
- If lens cover is not opened while turning on the camera, a prompt will appear on the LCD monitor.

F

Turning the Power Off

Press the POWER button again to turn off the camera.

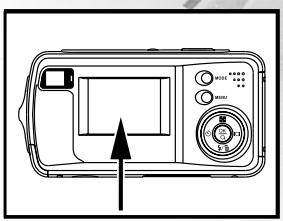
G

S

Using the LCD Monitor

The LCD monitor can help you to compose an image while capturing images, replay recorded images/video clips, and adjust camera settings.
The mode icons, text and numbers that are displayed on the LCD monitor may vary according to the current settings.

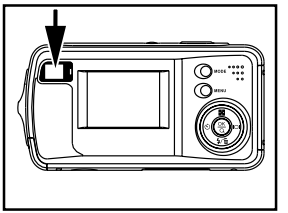
1. Open the lens cover and press the POWER button to turn on your ViviCam 3815.
2. Set the scene mode in the Capture menu based on the desired scenery. (Auto/Sports/Night Scene/Portrait/Landscape/Back Light).
3. Compose your image on the LCD monitor.
4. Press the shutter button.



Note:

- In the Capture mode, pressing [ ]display button will select OSD Off/LCD Off/LCD On.
- The LCD monitor is difficult to see in strong sunlight. This is not a malfunction.
- Using the LCD monitor for an extended period of time will decrease the number of images you can capture. To conserve battery power and increase the number of images you can capture, we recommend you to turn the LCD monitor off and use the viewfinder instead.
- Always use the LCD monitor for MACRO shots to avoid parallax effects.
- In [ ] Movie mode the LCD monitor cannot be turned off.
- The LCD monitor must be on to use Digital Zoom.

Using the Optical Viewfinder to Shoot

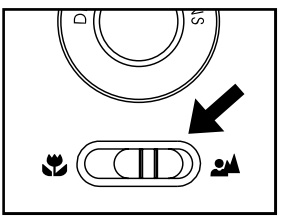


Your camera is also equipped with an optical viewfinder to compose images. Capturing images by using the optical viewfinder will conserve battery power. The LCD monitor can help you accurately compose the pictures and examine all the details, but using it may also consume more battery power.

1. Open the lens cover and press the POWER button to turn on your ViviCam 3815.
2. Set the scene mode in the Capture menu based on the desired scenery. (Auto/Sports/Night Scene/Portrait/Landscape/Back Light).
3. Compose your image in the viewfinder.
4. Press the shutter button.

Normal-Focus Mode

Normal-focus mode is used to capture images where the distance to the subject is 4 feet or greater. Select this mode for general shooting, including portraits and scenery.



1. Open the lens cover and press the POWER button to turn on your ViviCam 3815.
2. Slide the focus switch located on the front side of the camera to the [ ] position.
3. Compose your image.
4. Press the shutter button.

Note:

■ LCD monitor will display [A] indicating Normal mode.

Digital Zoom

Using digital zoom, images appear closer. Whereas digital zoom is a compelling feature, the more an image is enlarged (zoomed), the more pixilated (grainier) the image will appear. The digital zoom function is only available when you set the LCD monitor and the digital zoom to ON by pressing the OK button.

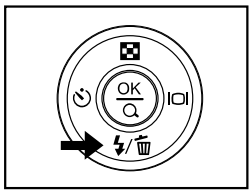
1. Open the lens cover and press the POWER button to turn on your ViviCam 3815.
2. Set the scene mode in the Capture menu based on the desired scenery. (Auto/Sports/Night Scene/Portrait/Landscape/Back Light).
3. Press the OK button to activate the zoom function.
   - You may zoom digitally up to 2X.
   - To exit digital zoom, press the OK button again.
4. Press the shutter button to capture a “zoomed” image.

Note:

- You can only use digital zoom at a resolution of 2304 x 1728 ; digital zoom is not available at the resolutions of 1600 x 1200, 1280 x 960, or 640 x 480 pixels.
- You may playback an image of any size and zoom in upon it.
- Digital zoom cannot be used in [ ] Movie mode.

Using the Flash

The flash is designed to function automatically when lighting conditions warrant the use of flash. You can capture an image using a flash mode suitable to your circumstances. If you change the flash mode, the ViviCam 3815 will retain that setting even if the camera is turned off.



1. Open the lens cover and press the POWER button to turn on your ViviCam 3815.
2. Set the scene mode in the Capture menu based on the desired scenery. (Auto/Sports/Night Scene/Portrait/Landscape/Back Light).
3. Press the [ϟ] button located on the rear side of the camera repeatedly until the desired flash mode icon appears on the LCD monitor.
4. Compose your image and press the shutter button.

The ViviCam 3815 has four flash modes: Automatic, On (Fill flash), Off, automatic with Red-eye reduction.

The table below will help to select the appropriate flash mode:

Flash Mode	Description
[ ] Fill flash (on)	The flash will always fire regardless of the lighting conditions. Select this mode for capturing images with high contrast (backlighting) and deep shadows.
[ ] Flash off	The flash will not fire. Select this mode when capturing images in a place where flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash.(Typically 12 feet)
[ ] Automatic flash	The flash fires automatically according to the ambient lighting conditions. Select this mode for general photography.
[ ] Red-eye reduction	The flash emits a precursor-flash before the main flash fires. This causes the pupil in the human eye to constrict, reducing the red-eye phenomenon. Select this mode when capturing images of people and animals in low-light conditions.

Note:

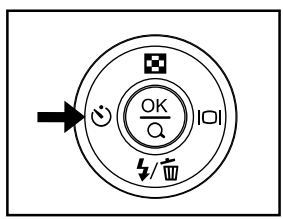
- In [ ] Macro mode and [ ] Landscape mode, flash photography is not possible.
- In [ ] Night Scene mode, flash photography will automatically detect the ambient lighting. If the sur rounding brightness is low, the flash will fire to [ ] Red-eye reduction.
- In [ ] Sports mode, Flash mode is automatically set to [ ] Flash off.

Self-Timer

By using the [ ] self-timer you can get into the scene when capturing group shots. You can capture images with the self-timer in any scene mode (Auto/Sports/Night Scene/Portrait/Landscape/Back Light).

Self-timer duration can be set to 10 seconds or 5 seconds. Self-timer mode appears cyclically as [10 s]→[5 s]→ [Display Off]. After the self-timer is set, the shutter automatically releases after 10 seconds or 5 seconds. The self-timer lamp starts blinking relatively slow for the first 7 seconds or the first 2 seconds and then blinking rapidly for the last 3 seconds.

1. Secure the camera to a tripod or place it on a stable surface.
2. Open the lens cover and press the POWER button to turn on your camera.
3. Set the scene mode in the Capture menu based on the desired scenery. (Auto/Sports/Night Scene/Portrait/Landscape/Back Light).
4. Compose your image.
5. Press the [ ] self-timer button.
   - The count down is displayed on the LCD monitor.
6. Press the shutter button.
   - To cancel the self-timer, press the ▼ button to disrupt the sequence.

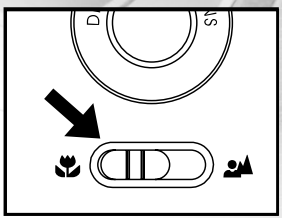


Note:

- In Capture mode, press the ◀ button to set self-timer ON.
- After each self-timed image is captured, the self-timer is turned OFF.

Macro-Focus Mode

Use [ ] Macro-Focus mode to capture close-ups of subjects such as flowers or insects. The effective macro is between 2 and 4 feet.



1. Open the lens cover and press the POWER button to turn on your ViviCam 3815.
2. Slide the focus switch located on the front side of the camera to the [ ] position.
   - LCD monitor will display [ ] as Macro-Focus mode.
3. Compose your image.
4. Press the shutter button.
   - To disable macro photography, slide the focus switch back to the [ ] Normal-Focus mode.

Note:

- When shooting a close-up in the [ ] Macro-Focus mode, use the image LCD monitor to compose your image, avoiding the off-center parallax phenomenon.
- In [ ] Macro-Focus mode, EV compensation, Scene mode and ISO speed cannot be set.
- In [ ] Macro-Focus mode, Flash mode is automatically set to [ ] Flash off.
- After a macro shot is taken DO NOT FORGET to reset the lens to the [ ] Normal-Focus position.

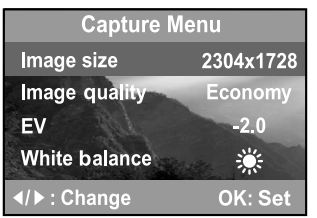
Setting the Image Resolution and Quality

Resolution and quality settings determine the pixel size (dimension), image file size, and compression ratio for your images. These settings affect the number of images that can be stored in memory, or on an SD memory card. As you get to know the ViviCam 3815, it is recommended that you try each quality and resolution setting to get an appreciation for the effects that these settings will have on your images.

Higher resolution and higher quality images offer the best photographic results but produce large files sizes. Therefore, fewer images will take up more memory space.

High resolution and quality settings are recommended for printed output and situations requiring the finest detail. Lower resolution/quality images take up less memory space and may be quite suitable for sharing images via e-mail, in a report, or on a web page.

To change image resolution or quality settings perform the steps below:



1. Open the lens cover and press the POWER button to turn on your ViviCam 3815.
2. Press the MENU button to enter the Capture menu and select Image size or Image quality by using the ▲ / ▼ button.
3. Set Image size or Image quality by pressing the ◀ / ▶ button in the main menu or press the OK button to enter the sub-menu, then press the OK button to confirm the setting.
4. To exit the Capture menu, press the MENU button again.

Number of Recordable Images

The frame counter indicates the approximate number of images that can be stored on the internal memory or the SD memory card at the ViviCam 3815's image quality and size settings. The number of recordable images may vary depending on the recorded subject and the capacity of the memory card, or if there are files other than images, or when the recording is made while switching the picture quality/resolution.

Resolution	Quality	Compression Ratio	16MB (approx.) Internal Memory	8MB SD Memory Card	16MB SD Memory Card	32MB SD Memory Card	64MB SD Memory Card	128MB SD Memory Card	256MB SD Memory Card
2304 x 1728 4M	★★	8:1	9	4	9	20	42	85	169
	★★	12:1	14	6	14	31	63	128	256
	★	16:1	19	8	19	41	84	170	339
1600 x 1200 2M	★★	8:1	20	9	20	43	88	178	335
	★★	12:1	30	13	30	63	129	261	520
	★	16:1	41	18	41	86	176	356	710
1280 x 960 1.2M	★★	8:1	32	12	32	67	137	278	554
	★★	12:1	48	21	48	101	206	417	832
	★	16:1	60	27	60	126	258	522	1040
640 x 480 0.3M	★★	8:1	113	51	113	236	484	978	1950
	★★	12:1	181	82	181	379	775	1566	3121
	★	16:1	226	103	226	473	968	1957	3901

* The above data shows the standard testing results. The actual capacity varies according to the shooting con ditions and settings.

SHOOTING-MODES

Automatic Mode

Using [A] Automatic the majority of the settings are adjusted by the camera. Simply point at your subject and then shoot.

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press the MENU button to enter the Capture menu and select Scene by using the ▲ / ▼ button.
3. To select [Auto] mode, the setting can be set by pressing the ◀ / ▶ button in the main menu or press the (OK) button to enter the sub-menu, then press the (OK) button again to confirm the setting.
4. To exit the Capture menu, press the MENU button again.
   - LCD monitor will display [A] as Auto mode icon.

Note:

- The camera is shipped from the factory in [A] Auto mode.
- The scene setting will not be retained when the camera is turned off.
- For other settings like Language, Power Off time or others choose Setup in the Capture menu.

Sports Mode

For dynamic action choose the [ ] Sports mode. This feature allows you to capture moving subjects continuously. (16 images can be captured continuously in a burst over an interval of 1.6 sec. to 2 sec.).

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press the MENU button to enter the Capture menu and select Scene by using the ▲ / ▼ button.
3. To select [ ] Sports mode, the setting can be set by pressing the ◀ / ▶ button in the main menu or press the OK button to enter the sub-menu, then press the OK button again to confirm the setting.
4. To exit the Capture menu, press the MENU button again.
   - LCD monitor will display [ ] as Sports mode icon.

Note:

- The scene setting will not be retained when the camera is turned off.
- In [ ] Sports mode, ISO speed cannot be set.
- In [ ] Sports mode, Flash mode is automatically set to OFF.
- For other settings like Language, Power Off time or others choose Setup in the Capture menu.

Night Scene Mode

Capturing your subjects by using [ ] Night Scene mode helps to provide a natural balance between the main subject and the background. The people in an evening sky or night scene are illuminated with the flash while the background is captured at a slow shutter speed providing proper exposure for both.

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press the MENU button to enter the Capture menu and select Scene by using the ▲ / ▼ button.
3. To select [ ] Night Scene mode the setting can be set by pressing the ◀ / ▶ button in the main menu or press the OK button to enter the sub-menu, then press the OK button again to confirm the setting.
4. To exit the Capture menu, press the MENU button again.
   - LCD monitor will display [ ] as Night Scene mode icon.

Note:

- The night scene setting will not be retained when the ViviCam 3815 is turned off.
- In [ ] Night Scene mode, Flash mode will automatically detect the ambient lighting. If the surrounding brightness is low, the flash will fire to [ ] Red-eye reduction.
- In [ ] Night Scene mode, ISO speed cannot be set.
- For other settings like Language, Power Off time or others choose Setup in the Capture menu.

Portrait Mode

Capturing images by selecting [ ] Portrait mode helps you to compose portraits in which the main subject stands out against background details.

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press the MENU button to enter the Capture menu and select Scene by using the ▲ / ▼ button.
3. Select [ ] Portrait mode by pressing the ◀ / ▶ button in the main menu or press the OK button to enter the sub-menu, then press the OK button to confirm the setting.
4. To exit the Capture menu, press the MENU button again.
   - LCD monitor will display [ ] as Portrait mode icon.

Note:

- The portrait-mode setting will not be retained when the ViviCam 3815 is turned off.
- In [ ] Portrait mode, ISO speed cannot be set.
- In [ ] Portrait mode, in a dark or night-time background, Flash mode defaults to [ ] Red-eye reduction.
- For other settings like Language, Power Off time or others choose Setup in the Capture menu.

Landscape Mode

Capturing images by choosing [▲] Landscape mode helps you to capture vivid and expansive landscape images by enhancing the image's color and saturation. [▲] Landscape mode is used when the distance to the subject is greater than 6 feet.

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press the MENU button to enter the Capture menu and select Scene by using the ▲ / ▼ button.
3. Select [▲] Landscape mode by pressing the ◀ / ▶ button in the main menu or press the OK button to enter the sub-menu, then press the OK button again to confirm the setting.
4. To exit the Capture menu, press the MENU button again.
   - LCD monitor will display [▲] as Landscape mode icon.

E

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S

Note:

- Landscape-mode will not be retained when the ViviCam 3815 is turned off.
- In [▲] Landscape mode, ISO speed cannot be set.
- In [▲] Landscape mode, Flash mode is automatically set to [⚡] Flash off.
- For other settings like Language, Power Off time or others choose Setup in the Capture menu.

Back Light Mode

Use [ ] Back Light mode is useful when there is light behind your subject, throwing desired features into shadow, or when your subject is in the shade but the background is brightly lit.

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press the MENU button to enter the Capture menu and select Scene by using the ▲ / ▼ button.
3. Select [ ] Back Light mode by pressing the ◀ / ▶ button in the main menu or press the OK button to enter the sub-menu, then press the OK button again to confirm the setting.
4. To exit the Capture menu, press the MENU button again.
   - LCD monitor will display [ ] as Back Light mode icon.

Note:

- The scene setting will not be retained when the camera is turned off.
- In [ ] Back Light mode, Flash mode defaults to [ ] Fill flash (on).
- In [ ] Back Light mode, ISO speed cannot be set.
- For other settings like Language, Power Off time or others choose Setup in the Capture menu.

Movie Mode

[🎥] Movie mode allowing you to record silent video clips at a resolution of 320X240 pixels.

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press the MODE button to enter the [🎥] Movie mode.
3. Start recording a video clip by pressing the shutter button.
   - The movie icon, REC , elapsed time, the card indicator, macro mode icon and the adapter/battery level will display on the LCD monitor while recording a video clip.
   - To stop recording, press the shutter button again.

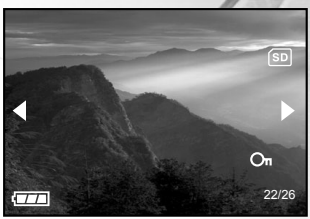
Note:

- In [🎥] Movie mode, resolution/quality, macro and self-timer cannot be set.
- In [🎥] Movie mode, the flash mode is automatically set to [⚡] OFF.
- To may adjust EV or White balance prior to capturing a Video Clip.

IMAGE PLAYBACK

In [▶] Playback mode you can view your images and video clips. You can even magnify (zoom in on) your images. Playback mode provides a thumbnail image display function that allows you to quickly search for the image that you want. You may view your images in a slideshow.

Single Image Replay



To Play back still images one image at a time.

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press twice the MODE button to enter [▶] Playback mode.
   - The last recorded image appears on the LCD.
3. View and select your recorded images by using the ◀ / ▶ button.
   - To view the previous image, press the ◀ button.
   - To view the next image, press the ▶ button.

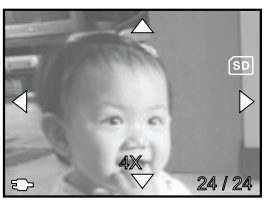
Note:

- To exit [▶] Playback mode, press MODE button.
- If there is no image stored in the internal memory or on the memory card, [No Image] appears on the LCD.

Playback Zoom

While reviewing your images, you may enlarge a selected portion of an image. This magnification capability allows you to view fine details.

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press the MODE button twice to enter [▶] Playback mode.
   - The last image frame appears on the LCD monitor.
3. Select an image by using the ◀ / ▶ button.
4. Enlarge the image by pressing the OK button.
   - Pressing the OK button once magnifies the image to 2X. Pressing it again magnifies the image to 4X.
5. Use the ▲ / ▼ / ◀ / ▶ button to select the area to enlarge.
6. To return to the regular display from 4X-enlarged status, press the OK button.



Note:

- Each press of the OK button, the modes switch cyclically: 1X—>2X—>3X—>4X—>1X.

Viewing Nine Images at a Time

This function allows you to view nine thumbnail images on the LCD monitor simultaneously so that you can quickly scan for a particular image.

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press twice the MODE button to enter [▶] Playback mode.
3. Press the [▦] thumbnail button and nine thumbnail images appear on the LCD monitor. (Assuming there are nine or more recorded images in the memory.)
4. Use the ▲ / ▼ / ◀ / ▶ button to move the cursor to select the image to be displayed at regular size.
5. Press the OK button to display the selected image on the full screen.

Viewing Video Clips

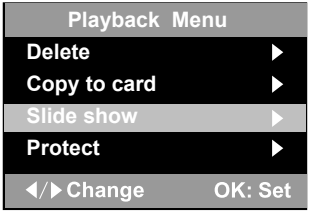
To view recorded video clips, follow the steps below:

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press the MODE button to enter [ ] Movie mode.
3. Select the video clip that you want to view by using the ◀ / ▶ button.

Slide Show

The Slide show function enables you to play your images back automatically in sequential order as a slide show. This is a very useful and entertaining feature for reviewing recorded images and for presentations.

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press twice the MODE button to enter [▶] Playback mode. Then press the MENU button to enter the Playback menu.
3. Select “Slide show” by using ▲ / ▼ button then press the OK button to enter the sub-menu.
4. Set the playback interval by using the ▲ or ▼ button and press the OK button to confirm.
   - The slideshow starts displaying your images on the LCD, one by one, at the interval you set.
   - To stop the slideshow display, press the OK button.



Note:

- To exit playback (slide show) you may choose Exit.
- You can adjust the slideshow display interval within the range of 1 to 10 seconds. The default is 1 second.

Protecting Images

This feature allows you to prevent images from being accidentally erased.

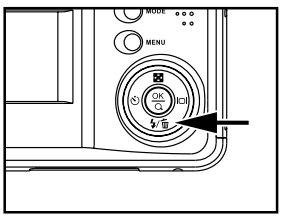
1. Open the lens cover and press the POWER button to turn on your camera.
2. Press twice the MODE button to enter [▶] Playback mode. Then press the MENU button to enter the Playback menu.
3. Select PROTECT by using the ▲ / ▼ button, and press the ▶ button.
4. You can protect one image or all images at one time by using the ▲ / ▼ button , and press the OK button.
   - Protect One: Protect one image
   - Protect All: Protect all images
5. Select “UNLOCK” or “LOCK” by using the ▲ / ▼ button.
   - Unlock: Unlock the protected image.
   - Lock: Protect the selected image or all images.
6. Press the OK button again to confirm the setting.

ERASING

Deleting Images and Video Clips

You can delete a captured image or a recorded video clip at a time by pressing the [🗑] delete button.

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press continuously the MODE button to enter [▶] Playback mode.
   - The last image frame appears on the LCD monitor.
3. View and select unwanted image by using the ◀ / ▶ button, then press the [🗑] delete button.
4. Continue the deletion if necessary.
   - If all images are deleted, [No Image] will pop up.
   - To exit the deletion, press again the MODE button again.

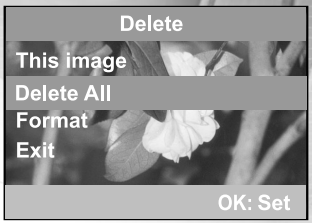


Note:

- Please note that deleted images cannot be recovered. Exercise adequate caution before deleting a file.
- Protected images cannot be deleted with the erase function.

Deleting All Images and Video Clips

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press twice the MODE button to enter [▶] Playback mode. Then press the MENU button to enter the Playback menu.
3. Select Delete by using the ▲ / ▼ button, and press the OK button.
4. Select [Delete All] by using the ▲ / ▼ button,then press the OK button to confirm the deletion.



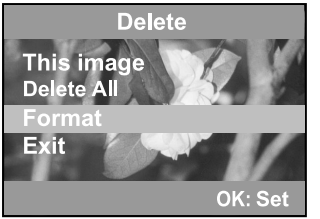
Note:

- Please be aware of that deleted images cannot be recovered. Exercise adequate caution before deleting a file.
- Protected images cannot be deleted with the erase function.
- If a memory card is present; the camera will automatically use the card in preference to internal memory.

Formatting an SD Memory Card or Internal Memory

Formatting an SD card or internal memory will erase all the images on the SD memory card/internal memory.

1. Open the lens cover and press the POWER button to turn on your camera.
2. Press twice the MODE button to enter [▶] Playback mode. Then press the MENU button to enter the Playback menu.
3. Select Delete by using the ▲ / ▼ button, and press the OK button.
4. Select [Format] by using the ▲ / ▼ button.
5. If you want to format the SD memory card or the internal memory choose [Yes] by pressing ▲ / ▼ button, then press the button to confirm.
   - To cancel the action, select [No] instead.
   - [No Image] pops up after the SD memory card or the internal memory is been formatted.



Note:

- Be sure the SD memory card is properly inserted into the camera before formatting it.
- To format images or video clips recorded in the internal memory, be sure to remove your SD memory card first.
- Formatting will erase all information (even unrelated data) from the memory/card.

TRANSFERRING IMAGES AND VIDEO CLIPS TO YOUR COMPUTER

You can share recorded images and video clips with your family or friends via e-mail or post them on the Web. Before doing those things, you need to connect the camera to your computer by using the USB cable and then transfer the images and video clips.

To transfer images and video clips from the camera to your computer, follow the steps below:
Step 1: Installing the USB driver (only for Windows 98)
Step 2: Connecting the camera to your computer
Step 3: Downloading images and video clips

	System Requirements (Windows)	System Requirements (Macintosh)
CPU	Pentium 300 MHz processor or higher	PowerPC G3/G4
OS	Windows 98/98SE/Me/2000/XP	OS 8.6 or higher
Memory	128 MB	128 MB
Free Space on Hard Disk	128 MB hard disk space	128 MB hard disk space
Required Devices	CD-ROM Drive, available USB Port	CD-ROM Drive, available USB Port

Step 1: Installing the USB Driver on Windows Computers

The USB driver on the supplied CD-ROM is exclusively for Windows 98. Installing the USB driver on computers running Windows 2000/Me/XP is not necessary.

1. Insert the CD-ROM packaged with the camera into the CD-ROM drive. The welcome screen appears.
2. Click “Install USB Driver”. Follow the on-scr een instructions to complete the installation. After the USB driver installation is complete, r estart your computer.

Installing the USB Driver on Macintosh Computers

Mac OS 8.6 users must install a USB driver. For Mac OS 9.0 or higher version, the computer will automatically recognize the camera and load its own USB drivers.

1. Insert the CD-ROM that packaged with the camera into your CD-ROM drive.
2. Select and double-click “Digital Camera Driver Installer”.
3. Select “Install Location” and click “Install”.
4. Follow the on-screen instructions to complete the installation and restart your computer.

Step 2: Connecting the Camera to Your Computer

1. Connect one end of the USB cable to an available USB port on your computer.
2. Connect the other end of the USB cable to the USB connector on the camera.
3. Turn the camera on. Your computers operating system will recognize the camera.
4. From the Windows desktop double click on “My Computer”
5. Look for a new “removable disk” icon. This “r emovable disk” is actually the memory (or memory card) in your camera. Typically, the camera will be assigned drive letter “e” or higher.
6. Double click on the removable disk and locate the DCIM folder.
7. Double click on the DCIM folder to open it to find more folders such as “100CAMEA”
8. Your recorded images and video clips will be inside these folders
9. Copy & Paste or Drag-N-Drop image and video files to a folder on your computer

Mac users:
double-click the “unlabeled” disk drive icon on our desktop. iPhoto may automatically launch. The volume label will vary depending upon whether you use internal camera memory, or a memory card.

Step 3: Downloading Recorded Images and Video Clips

When the camera is turned on and connected to your computer, it is considered to be a disk drive, just like a floppy disk or CD. You can download (transfer) images by copying them from the “removable disk” (“untitled” disk on a Macintosh) to your computer hard driver as described in the prior section.

For Computers Running Windows

Open the “removable disk” and subsequent folders by double clicking on them. Double click on the folder . Your images are inside these folder(s). Select the images that you want, then choose “Copy” from the “Edit” menu. Open the destination location (folder) and choose “Paste” from the “Edit” menu. Y ou may also drag and drop image files from the camera to a desired location.

For Computers Running Mac OS and Desktop/LX

Open the “untitled” disk window and the hard disk or the destination location. Drag and dr op from the camera disk to the desired destination.

Note:

- It is recommended that you use the AC power adapter as a power supply for the camera while transferring your images and video clips from the camera to your computer to avoid the camera maybe cut off unexpectedly when the batteries run out.
- Memory card users may prefer to use a memory card reader (highly recommended). Memory card readers offer advantages in terms of convenience, speed, and cost-savings. While connected to your computer the batteries in your camera will be continue to be used. A car d reader, which has no batteries and uses USB power from your computer, will save considerably on batteries.

INSTALLING PHOTOSUITE

PhotoSuite is a very user-friendly image-editing program. With PhotoSuite, you can retouch, compose and organize your images. It contains a variety of templates, such as photo frames, birthday cards, calendars and more. Get your images ready and go explore this amazing program.

To Install PhotoSuite

1. Insert the CD-ROM packaged with the camera into the CD-ROM drive. The welcome screen appears.
2. Click “Install PhotoSuite”. Follow the on-screen instructions to complete the installation.

Note:

- For information on how to use PhotoSuite to edit and retouch your recorded images, please refer to its online help.
- For Windows 2000/XP users, make sure to install and use the PhotoSuite while logged in as a user with an “Administrator” account.
- PhotoSuite is not supported on the Mac. iPhoto or iPhoto2 is recommended.

INSTALLING PHOTOVISTA

PhotoVista is an easy-to-use program that lets you create spectacular 360^0 panoramic images in a snap. When you view these panoramas, you can get the experience of being totally immersed in a realistic environment. PhotoVista's powerful engine quickly and automatically stitches images together, and its intuitive interface will let even a novice get great results in minutes.

To Install PhotoVista

1. Insert the CD-ROM packaged with the camera into the CD-ROM drive. The welcome screen appears.
2. Click "Install PhotoVista". Follow the on-screen instructions to complete the installation.

Note:

- For information on how to use PhotoVista to create spectacular 360^0 panoramic images, please refer to its online help.
- For Windows 2000/XP users, make sure to install and use the PhotoVista while logged in as a user with an Administrator account.
- For Windows XP users which OS version does not include Service Pack 1 or higher, be sure to link to http://www.java.com/en/download/windows_automatic.jsp first and download the Java Virtual Machine installation. For more detail information about Java, please refer to its on-line help at http:java.sun.com/getjava/help.html. After java software installation, you can start to install iSee Media Photovista Panorama.
  Hereunder is iSee Media Photovista Panorama system requirements and recommendations:
  Windows 95/ Windows 98/ Windows NT 4 (Service Pack 3 or higher)
  Windows 2000*/ Windows Me*/ Windows XP* (Service Pack 1 or higher)
- PhotoVista is not supported on the Mac.

INSTALLING ACROBAT READER

The CD-ROM includes a PDF (portable document format) copy of the user's manual. To view a PDF you must have Acrobat Reader installed in your computer. Acrobat Reader is included on the camera CD ROM. Using Acrobat Reader, you can read the user's manual and print sections of interest.

1. Insert the CD-ROM that came with the camera into the CD-ROM drive. The welcome screen appears.
2. Click "Install Acrobat Reader". Follow the on-screen instructions to complete the installation.

For Mac users:

1. Insert the CD-ROM that came with the camera into the CD-ROM drive.
2. Select and double-click "Acrobat Reader".
3. Select and double-click the language that you want.
4. Double-click "Reader Installer".
5. Follow the on-screen instructions to complete the installation.

USING THE USER'S MANUAL

A copy of the user's manual on is provided on the CD-ROM in PDF format. It is a backup copy of the printed manual. If you misplace the printed guide, you may print another copy from the CD-ROM. The only requirement for viewing the User Manual on the CD-ROM is that you have Acrobat Reader installed on your computer. Updates to this manual, and versions in other languages may be found on our website.

1. Insert the CD-ROM that came with the camera into the CD-ROM drive. The welcome screen appears.

2. Click "Install User's Manual". Follow the on-screen instructions to complete the installation.
   Alternatively, browse the CD-ROM to find the PDF file.

For Mac users:
1. Insert the CD-ROM that came with the camera into the CD-ROM drive.
2. Select and double-click "Manual".
3. Select and double-click the language that you want.
4. Drag and drop the PDF file from the current location to the destination location.
5. View the user's manual by opening it.

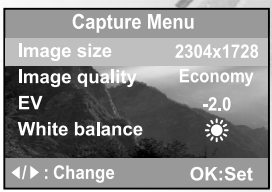
LIST OF MENU OPTIONS

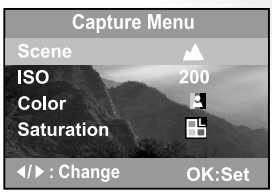
Capture Menu

In the Capture menu, you can specify camera settings you would like to use such as resolution, image quality, EV compensation, white balance, scene mode, ISO, color mode, image saturation and sharpness.

1. Open the lens cover and press POWER button to turn on your camera.
2. Press the MENU button and then scroll through the options by using the ▲ / ▼ button. You may change the settings by pressing the ◀ / ▶ button in the main menu or press the OK button to enter the sub-menu and choose the setting. After the setting is set, press the OK button to confirm.
3. To exit the Capture menu, press the MENU button again.

Capture menu items: Image size(resolution), Image quality, EV, White balance, Scene, ISO, Color, Saturation, Sharpness, Date imprint and Setup.





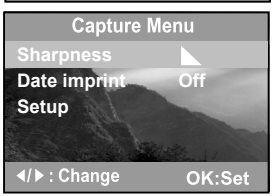


Image size

Refer to “Setting Image Resolution and Quality” in BASIC FUNCTIONS.

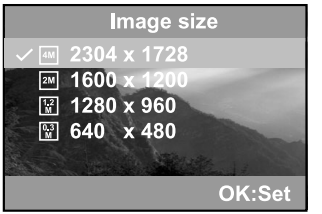


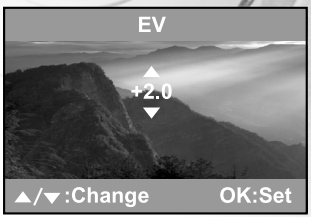
Image quality

Refer to “ Setting Image Resolution and Quality” in BASIC FUNCTIONS.

EV

Your ViviCam 3815 adjusts the exposure each scene automatically. However, when the subject is too dark or too bright, you can adjust the exposure manually. This is called EV compensation.
The EV compensation of your camera can be adjusted from [-2.0 EV] to [+2.0 EV] (in 0.5 EV steps).

To adjust EV, press the ◀ / ▶ button in the main menu or press the OK button to enter the sub-menu and choose the setting. After the adjustment is set, press the OK button to confirm.



Effective Subjects and Set Values

Positive (+) Compensation
- Copying of printed text (black characters on white paper)
- Backlit portraits
- Very bright scenes (such as snowfields) and highly reflective subjects
- Shots made up predominantly of sky

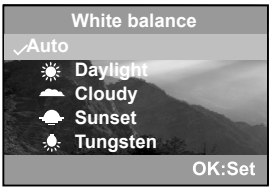
Negative (-) Compensation
- Spot lighted subjects, particularly against dark backgrounds
- Imaging of printed text (white characters on black paper)
- Scenes with low reflectivity, such as shots of green or dark foliage

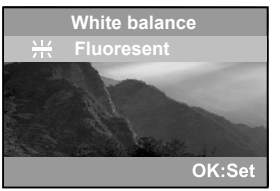
White balance

When the brightness and nature (source) of the light changes, our eyes adapt to the difference so that the white object remains white. Digital still cameras, also see a white object as white by averaging the light around the subject.

The ViviCam 3815 determines the white balance by averaging the various kinds of light that enters the lens. You may specify the white balance when capturing images under specific lighting conditions (Auto, Daylight, Cloudy, Sunset, Tungsten and Fluorescent).

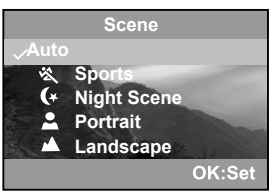
[Auto]: automatically adjusts the white balance.
[Daylight]: for recording outdoors on a bright day.
[Cloudy]: for recording on an overcast day in shade, at twilight.
[Sunset]: for recording at sunset.
[Tungsten]: for recording under tungsten lighting conditions.
[Fluorescent]: for recording under fluorescent lighting conditions.

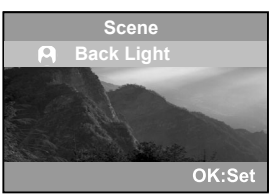




Scene

Refer to "SHOOTING MODES".





ISO

Select the photographic ISO to be used for image capture.
The higher the ISO sensitivity value, the greater sensitivity, but the greater the noise. With a higher sensitivity selected, bright photographs can be taken with less light.

Auto adjustment

[ISO 100]: Sensitivity equivalent to ISO100

[ISO 200]: Sensitivity equivalent to ISO200

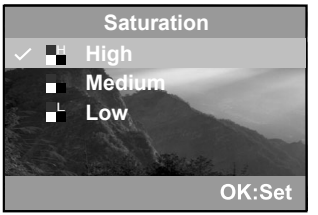
Color Mode

When capturing an image, the ViviCam 3815 offers three types of color (Full color/ Black & White/ Sepia) for you to match as your wish. Your images will demonstrate different impression by choosing different types of color.

[Full color]: Bright colors (24 bit RGB)
[Black & White]: Monochrome (grayscale)
[Sepia]: Sepia tones

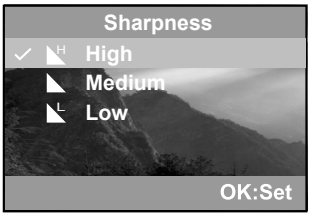
Saturation

When Capturing an image, the ViviCam 3815 offers you three different degrees of color saturation (richness) (High/Medium/Low) to match your preferrence. Your images will give a different impressons by choosing the different degrees of color.



Sharpness

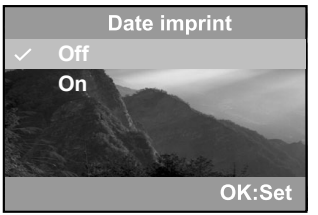
Your ViviCam 3815 can automatically emphasize the borders between light and dark areas of the image. This will make the image's edges look sharper. In some scenes you may prefer sharper edge detail. In other scenes you may prefer softer edge detail.



Date imprint

If you set imprint function, your image will be displayed with date on it.

[Off]: Date will not be shown on the captured image.
[On]: Date will be shown on the captured image.



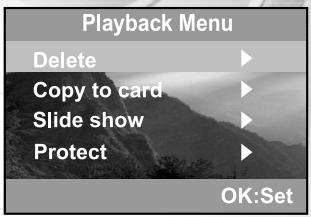
Setup

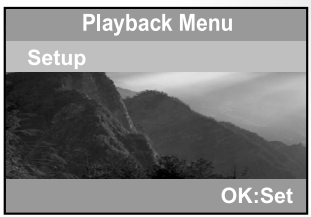
Refer to “Setup Menu” in LIST OF MENU OPTIONS.

Playback Menu

Using the Playback menu you can create an on-camera slide show. You may also delete images,and format your SD memory card or the internal memory.

1. Press POWER button to turn the camera on.
2. Press MODE button twice to enter [▶] Playback mode.
   Then press the MENU button to enter Playback menu.
   Scroll through the options by using the ▲ / ▼ button.
3. To enter the sub-menu press the OK button. After settings are set, press again the OK button to confirm.
4. To exit the Playback menu, press the MODE button.





Playback menu items: Delete, Copy to card, Slide show, Protect and Setup.

Delete

Refer to “Deleting Images and Video Clips” in ERASING.

Copy to card

This feature allows you to copy your images/video clips from the camera's memory. This functions is enabled when the SD memory card is loaded and the internal memory contains images/video clips.

Slide show

Refer to “Slide Show” in Playback.

Protect

Refer to “Protecting Images” in Playback.

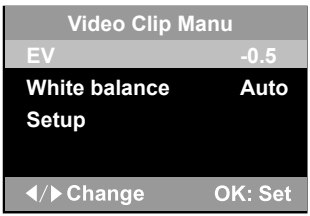
Setup

Refer to “Setup Menu” in LIST OF MENU OPTIONS.

Video Clip Menu

Use the Video Clip menu you can adjust EV compensation, white balance to record video clips with your preferences.

Video Clip menu items: EV, White balance and Setup.



EV

Refer to “Capture Menu” in LIST OF MENU OPTIONS.

White balance

Refer to “Capture Menu” in LIST OF MENU OPTIONS.

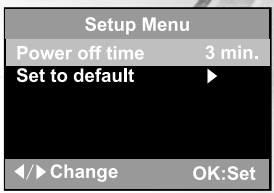
Setup

Refer to “Setup Menu” in LIST OF MENU OPTIONS.

Setup Menu

You can select preference for the camera settings under Setup. Navigate the options you wish to configure by using the ▲ / ▼ button.

Setup menu items: Date & Time, TV, Beeper, Language, Power off time and Set to default.



Date & Time

Refer to “Setting the Date and Time”

TV

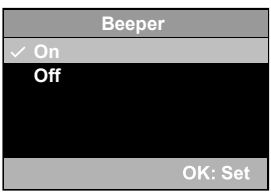
Set the video output format for displaying recorded images on a television.

[NTSC]: Select this format when located in the U.S.A., Canada, Japan, Korea, Taiwan, Central America, or Mexico.
[PAL]: Select this format when located in Australia, Belgium, China, Denmark, Finland, Germany, Great Britain, Holland, Italy, Kuwait, Malaysia, New Zealand, Singapore, Spain, Sweden, Switzerland, Thailand or Norway.

Beeper

Specify whether or not beeps are to be generated when buttons are pressed.

[On]: Beeps are generated
[Off]: Beeps are not generated



Language

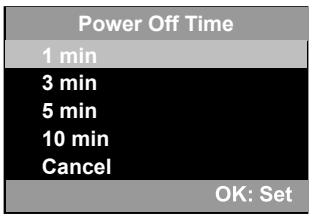
Specify OSD language menus and messages are to be displayed on the LCD monitor.

■ The provided languages are [English], [Français], [Deutsch],[Español], [Italiano], [繁體中文]and[简体中文]

Power off time

If no operation is performed for a specific period of time, the power to the camera is automatically turned off. This feature is useful to reduce battery consumption.

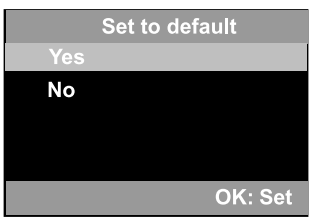
[1 Min], [3 Min], [5 Min], [10 Min], [Cancel]



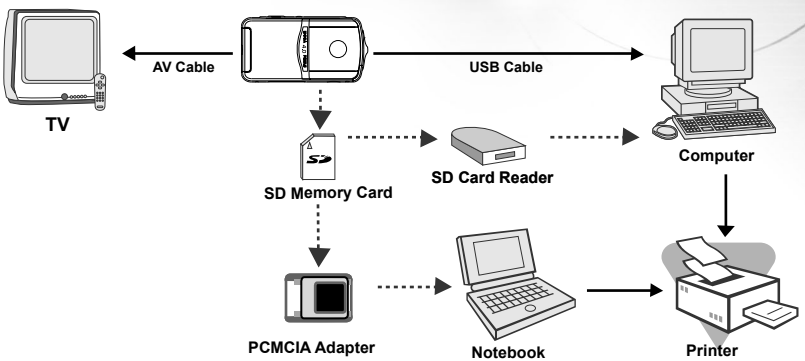
Set to default

This function will restore all the parameters to the factory-default settings.

[Yes]: Reset to default settings
[No]: Remain the current settings



CONNECTING YOUR VIVICAM 3815 TO OTHER DEVICES



VIVICAM 3815 SPECIFICATIONS

Item	Description
Image sensor	CCD
Effective pixels	4.0 Million
Image resolution	Still image: 2304 x 1728 1600 x 1200 1280 x 960 640 x 480 Video clip: 320 x 240
Image quality	Fine Normal Economy
Recording media	16MB internal memory;(14MB available for image storage) SD memory card (optional) (up to 512MB capacity)
Lens	Focal length: 7.7mm Focusing range: Portrait: 0.6m~1.1m Landscape: 1.1m~infinity F-number: 3.5
LCD monitor	1.4" color TFT LCD
Self-timer	5-second delay 10-second delay
Zoom	Digital: Capture mode: 2X/ Playback mode: 4X
Exposure compensation	Auto; Manual:-2.0~+2.0 EV (in 0.5EV step)

Item	Description
White balance	Auto; Manual: Daylight, Cloudy, Sunset, Tungsten, Fluorescent
Compressed format	JPEG, MPEG I Level I for video clip
Standards	JPEG, EXIF 2.2, MPEG I Level I
Interface	DC IN jack, USB connector, VIDEO OUT jack (NTSC or PAL)
Operating environment	Operation: -5^{0}C ~40^{0}C, 15% ~90% humidity Storage: -20^{0}C ~70^{0}C, 10 %~95% humidity
Power	2 x AA Alkaline batteries (optional), 2 x AA Ni-MH batteries (optional), AC power adapter (2.5A/3.0V) (optional)
Tripod socket	Yes
Dimensions	3.8” x 2” x 1.2” (96 mm x 51.5 mm x 30 mm) (WxHxD)
Weight	Approximately 4 ounces (110g) (without batteries and the SD memory card)

* Design and specifications are subject to change without notice.